

Recombinant Mouse ELP2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51825

Size: 10ug, 100ug

Protein Name: Elongator complex protein 2 (ELP2) (STAT3-interacting protein 1) (StIP1)

Synonym: Elp2, Statip1

UniProt ID: Q91WG4

UniProt Link: www.uniprot.org/uniprotkb/Q91WG4/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 831 AA

Molecular Weight: 93 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MVSSVLEVSHVFCCPNRVRGALSWNTGPGGLLAFGTSCSVVLYDPQKKVVITNLNGHTARVNCLO
WIRTEGSGPSNELVSGGSDNRVIHWELENNQVLKSVRLQGHEGPVCAVHAIYQSGPSEGEQHALIA
SAASDSTVRIWSKKGSEVKYLQTLSEFRDGFVLSVCLAILPGTNVPVLACGDDDCRIHLYIQQDDQFQK
ALSLCGHEDWIRGVEWATFGRDLFLASCSQDCLIRIWRLYMKPASFETKDGSRLRKENTFTIKDGGV
RTTVAVTLETVLGHNWVNAVHWQPSFYKDGVLQQPVRLLSASMDKTMILWAPDEESGVWLEQV
RVGEVGGNTLGFYDCQFGENGTMIIAHAFHGALHLWKQSTVNPRQWAPFIVISGHFDGVQDLMWD
PEGEFIITSTDQTTRLFAPWKKKDKQDRSQVTWHEIARPQIHGYNIKCLAMIDRFQFVSGADEKVLRL
VFSAPRNFVENFVSISRQSLSHMLCDDQDLPEGATVPALGLSNKALFQGDIA SQPFEEDELISPAFGS
PQVTFQPAVLNEPPTEDHLLQNTLWPEIQKLYGHGYEIVCVACNNSKTLLASACKASQKEHAAIILWS
TASWKQVQSLAFHTLTVTQMTFSPDDKFLAVSRDRTWSLWKRQDATSSEFDPFFSLFAFTNKITSV
HSRIIWSCDWSPDNKYFFTGSRDKKVVVWGECKSSHNPMEHPHPCSSILDVGSSVTAVSVCPVLN
PAQRYIVAIGLESGKICIYSWNKTNQEINDWTSCVETNPSQSHSLGIRRLCWKSCSDDDDDDDDDDDT
EQSEEGPEWLHFASCGEDHTVKIYRVNRRAL

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Elongator complex protein 2 (ELP2) (STAT3-interacting protein 1) (StIP1) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Component of the elongator complex which is required for multiple tRNA modifications, including mcm5U (5-methoxycarbonylmethyl uridine), mcm5s2U (5-methoxycarbonylmethyl-2-thiouridine), and ncm5U (5-carbamoylmethyl uridine). The elongator complex catalyzes the formation of carboxymethyluridine in the wobble base at position 34 in tRNAs.

Subcellular Localization: Cytoplasm . Nucleus .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.